

16998 U.S. PTO
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UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket No.	MTB17US
	First Inventor	Kia Silverbrook
	Title	THERMAL INK JET PRINTHEAD WITH BUBBLE FORMATION SURROUNDING HEATER ELEMENT
	Express Mail Label No.	

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <i>(Submit an original and a duplicate for fee processing)</i> 2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. 3. <input checked="" type="checkbox"/> Specification [Total Pages 58] <i>(preferred arrangement set forth below)</i> - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 66] 5. Oath or Declaration [Total Pages 3] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) <i>(for continuation/divisional with Box 17 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76	7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all necessary)</i> a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper c. <input type="checkbox"/> Statements verifying identity of above copies
ACCOMPANYING APPLICATION PARTS 9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s)) 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of <i>(when there is an assignee)</i> Attorney 11. <input type="checkbox"/> English Translation Document (if applicable) 12. <input type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Statement (IDS)/PTO-1449 Citations 13. <input type="checkbox"/> Preliminary Amendment 14. <input type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> 15. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i> 16. <input type="checkbox"/> Other:	

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:
☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: **10 / 302,274**

Prior application information:

Examiner

Group / Art Unit: **2853**

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label



or ☐ Correspondence address below

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Name (Print/Type)	KIA SILVERBROOK, ANGUS JOHN NORTH, AND GREGORY JOHN McAVOY	Registration No. (Attorney/Agent)	
Signature		Date	January 30, 2004

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 1,502.00

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Kia Silverbrook
Examiner Name	
Art Unit	
Attorney Docket No.	MTB17US

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number

Deposit Account Name

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments

☐ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE				
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	
1001 770	2001 385	Utility filing fee	770.00	
1002 340	2002 170	Design filing fee		
1003 530	2003 265	Plant filing fee		
1004 770	2004 385	Reissue filing fee		
1005 160	2005 80	Provisional filing fee		
SUBTOTAL (1)			(\$) 770.00	

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims 54 -20** = 34 x 18 = 612

Independent Claims 3 -3** = 0 x 0 = 0

Multiple Dependent 0 x 0 = 0

Large Entity Fee Code (\$)		Small Entity Fee Code (\$)		Fee Description	Fee Paid
1202 18	2202 9	Claims in excess of 20			
1201 86	2201 43	Independent claims in excess of 3			
1203 290	2203 145	Multiple dependent claim, if not paid			
1204 86	2204 43	** Reissue independent claims over original patent			
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent			
SUBTOTAL (2)					(\$) 612

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES						
Large Entity Fee Code (\$)		Small Entity Fee Code (\$)		Fee Description	Fee Paid	
1051 130	2051 65	Surcharge - late filing fee or oath				
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet				
1053 130	1053 130	Non-English specification				
1812 2,520	1812 2,520	For filing a request for ex parte reexamination				
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action				
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action				
1251 110	2251 55	Extension for reply within first month				
1252 420	2252 210	Extension for reply within second month				
1253 950	2253 475	Extension for reply within third month				
1254 1,480	2254 740	Extension for reply within fourth month				
1255 2,010	2255 1,005	Extension for reply within fifth month				
1401 330	2401 165	Notice of Appeal				
1402 330	2402 165	Filing a brief in support of an appeal				
1403 290	2403 145	Request for oral hearing				
1451 1,510	1451 1,510	Petition to institute a public use proceeding				
1452 110	2452 55	Petition to revive - unavoidable				
1453 1,330	2453 665	Petition to revive - unintentional				
1501 1,330	2501 665	Utility issue fee (or reissue)				
1502 480	2502 240	Design issue fee				
1503 640	2503 320	Plant issue fee				
1460 130	1460 130	Petitions to the Commissioner				
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)				
1806 180	1806 180	Submission of Information Disclosure Stmt				
8021 40	8021 40	Recording each patent assignment per property (times number of properties)			120.00	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))				
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))				
1801 770	2801 385	Request for Continued Examination (RCE)				
1802 900	1802 900	Request for expedited examination of a design application				
Other fee (specify) _____						
*Reduced by Basic Filing Fee Paid						
SUBTOTAL (3)					(\$) 120.00	

SUBMITTED BY

Name (Print/Type)	Kia Silverbrook, Angus John North and Gregory John McAvoy	Registration No. (Attorney/Agent)		Telephone	612 98186633
Signature		Date	January 30, 2004		

WARNING: Information on this form may become public. Credit card information should not be included in this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

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COPY

February 6, 2004

Commissioner of Patents and Trademarks
Washington DC 20231
USA

Dear Sir

22 New United States Patent Applications
Assignee: Silverbrook Research Pty Ltd

This letter accompanies 22 new patent applications.

One bank draft for the total amount of US\$31,094 is enclosed to cover filing and assignment fees for each of the 22 applications. Also attached is a list giving details of each application.

We look forward to receiving filing receipts in due course.

If you need to contact us in relation to the applications, please email my assistant, Leonie News at leonie.news@silverbrookresearch.com or by fax to +61 2 9555 7762.

Yours faithfully

Kia Silverbrook
Silverbrook Research Pty Ltd
kia.Silverbrook@silverbrookresearch.com

NO.	DOCKET NO.	TITLE	INVENTORS	AMOUNT US\$
1	MTB15	Thermal Ink Jet Printhead with Unintentional Boiling Prevention	Kia Silverbrook	1422
2	MTB16	Thermal Ink Jet Printhead with Small Nozzle Dimensions	Kia Silverbrook	1422
3	MTB18	Thermal Ink Jet Printhead with Bubble Collapse Point Void	Kia Silverbrook	1422
4	MTB19	Thermal Ink Jet Printhead with Reduced Pressure Transients	Kia Silverbrook	1422
5	MTB20	Thermal Ink Jet Printhead with Laterally Enclosed Heater Element	Kia Silverbrook	1422
6	MTB21	Thermal Ink Jet Printhead Assembly with Laminated Structure for the Alignment and Funneling of Ink	Kia Silverbrook	1422
7	MTB22	Thermal Ink Jet Printhead with Drive Circuitry on Opposing Sides of Chamber	Kia Silverbrook	1422
8	MTB23	Thermal Ink Jet Printhead with Suspended Heater Element Spaced from Chamber Walls	Kia Silverbrook	1422
9	MTB24	Thermal Ink Jet Printhead with Drive Circuitry Offset From Heater Elements	Kia Silverbrook	1422
10	MTB25	Thermal Ink Jet Printhead with Heater Element Having Non-Uniform Resistance	Kia Silverbrook	1422
11	MTB26	Thermal Ink Jet Printhead with Heater Element that Forms Symmetrical Bubbles	Kia Silverbrook	1422
12	MTB27	Thermal Ink Jet Printhead with Wide Heater Element	Kia Silverbrook	1422
13	MTB28	Thermal Ink Jet Printhead with Heater Element Mounted to Opposing Sides of the Chamber	Kia Silverbrook	1422
14	MTB29	Thermal Ink Jet Printhead with Heater Element Symmetrical About Nozzle Axis	Kia Silverbrook	1422
15	MTB30	Thermal Ink Jet Printhead with Bubble Nucleation Offset from Ink Supply	Kia Silverbrook	1422
16	MTB31	Thermal Ink Jet Printhead with Bubble Nucleation Laterally Offset from Nozzle	Kia Silverbrook	1422
17	MTB32	Thermal Ink Jet Printhead with Low Resistance Connection to Heater	Kia Silverbrook	1422
18	MTB34	Thermal Ink Jet printhead With Non-Buckling Heater Element	Kia Silverbrook	1422
19	MTB35	Thermal Ink Jet PRInthead with Rotatable Heater Element	Kia Silverbrook	1422
20	MTB36	Thermal Ink Jet Printhead with Heater Element Current Flow Around Nozzle Axis	Kia Silverbrook	1422
21	MTB17	Thermal Ink Jet Printhead with Bubble Formation Surrounding Heater Element	Kia Silverbrook, AJ North & GJ McAvoy	1,502
22	MTB33	Inkjet Printhead with CMOS Drive Circuitry Close to Ink Supply Passage	Kia Silverbrook	1,152
			TOTAL	31,094